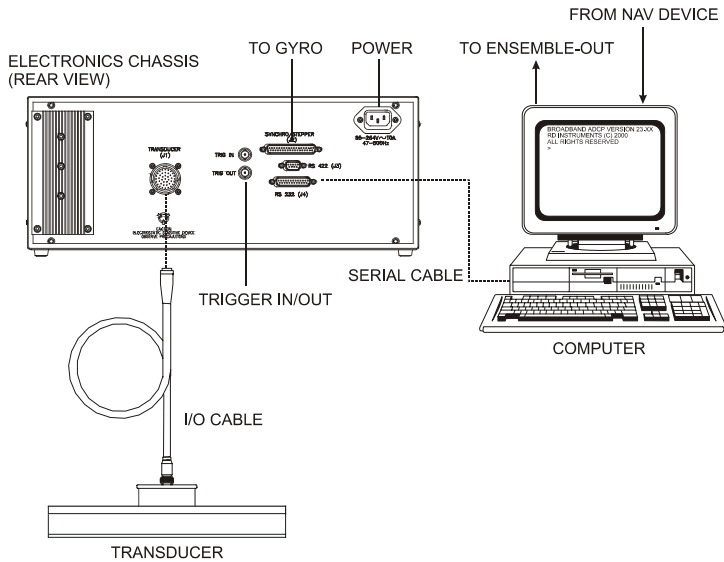
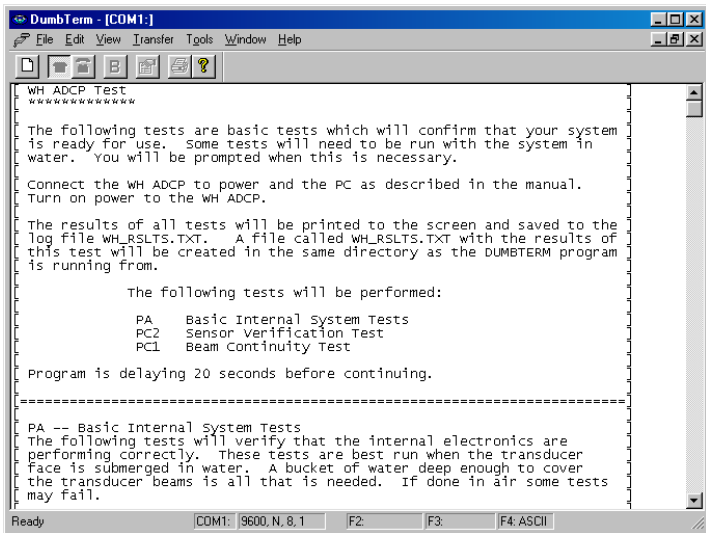


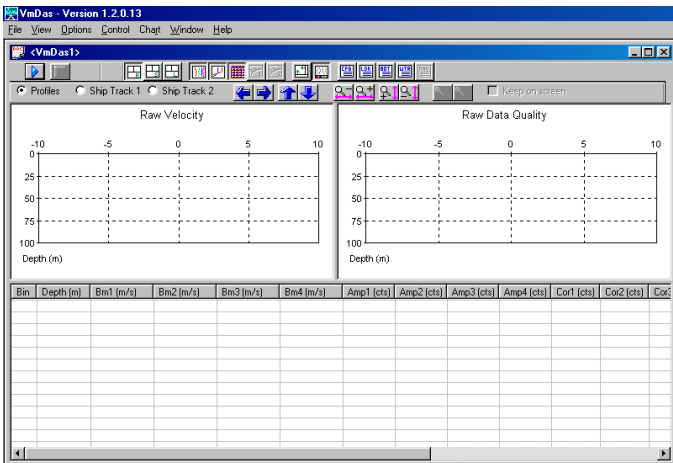
# Ocean Surveyor Quick Reference Card



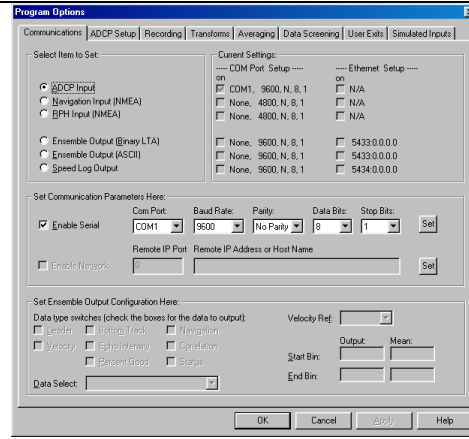
Step 1. Connect the Ocean Surveyor and computer as shown above.



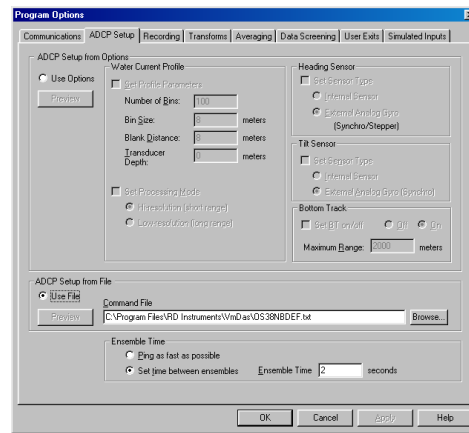
Step 2. Run the *BBTalk* script file TestOS.rds to verify the Ocean Surveyor is functioning properly.



Step 3. Start *VmDas*. On the **File** menu, click **Collect Data**. On the **Options** menu, click **Load**. Select the Default.ini file and click **Open**.



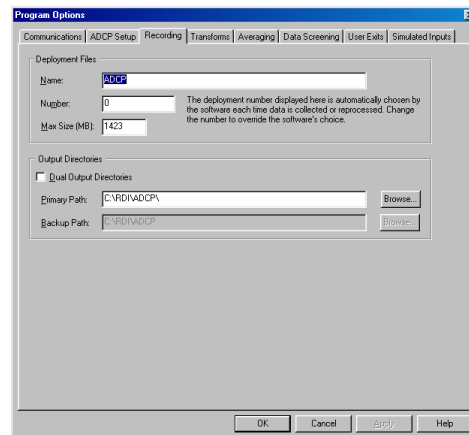
Step 4. On the **Options** menu, click **Edit Data Options**. Click the **Communications** tab and set the communications settings with the ADCP and NMEA ports.



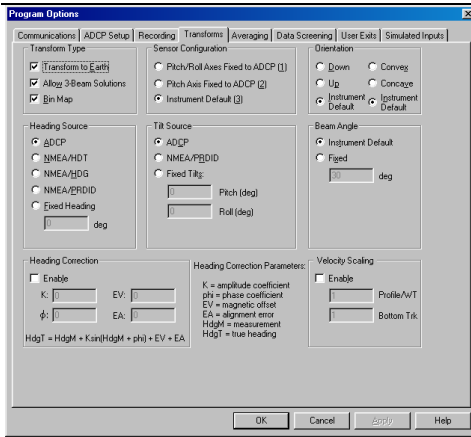
Step 5. Click the **ADCP Setup** tab. Set the **Ensemble Time** to the value shown below. Select the **Use File** button and choose a default command file for your ADCP, and load it into *VmDas* using the **Browse** button.

## Ensemble Time

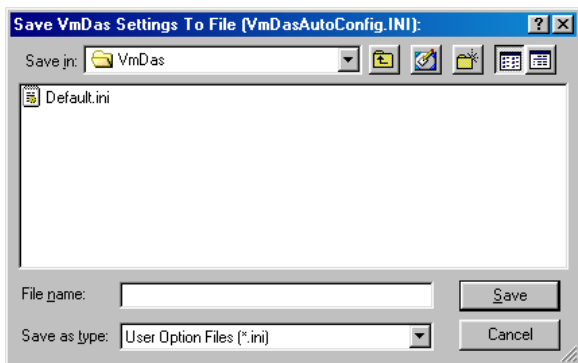
Frequency (kHz)	w Bottom Track (sec)	w/o Bottom Track (sec)
38	4	2
75	2	1
150	1	1



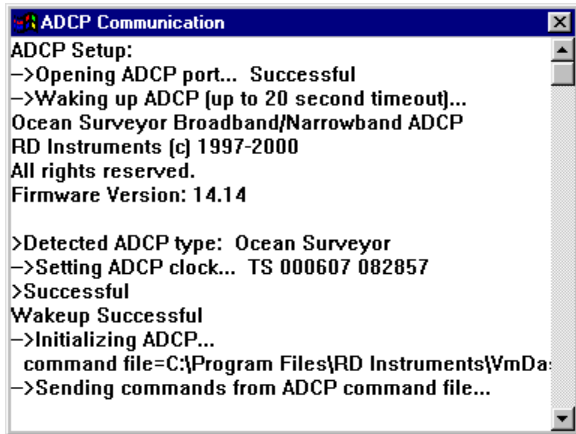
Step 6. Click the **Recording** tab. Set the deployment name and path to where the data files are recorded.



Step 7. Click the **Transforms** tab and verify the **Transform Type, Sensor Configuration, Orientation, Heading Source, Tilt Source, Beam Angle, and Heading Correction** are set to your input. Click **OK**.



Step 8. On the **Options** menu, click **Save As**. The options may be saved to a file for later retrieval.



Step 9. On the **Control** menu, click **Go** to begin collecting data. The ADCP Communication and NMEA window will open and show the commands from the command file being sent to the Ocean Surveyor and the Ocean Surveyor's response.

## Ocean Surveyor Care

This section contains a list of items you should be aware of every time you handle, use, or deploy your Ocean Surveyor. *Please refer to this list often.*

### General Handling Guidelines



**CAUTION.** Do NOT ping the Ocean Surveyor with the transducer in air. The power assembly board will short, causing the electronics chassis to no longer communicate. The transducer is pinged by sending a CS or PT5 command or if *VmDas* is started for collecting data – either of these methods will cause damage if the transducer is in air.

- ❑ Never set the transducer on a hard or rough surface. The urethane face may be damaged.
- ❑ Do not expose the transducer to prolonged sunlight. The urethane face may develop cracks. Cover the transducer face on the Ocean Surveyor if it will be exposed to sunlight.
- ❑ Do not scratch or damage the O-ring surfaces or grooves. All O-ring grooves and surfaces must be inspected for scratches or damages on every re-assembly. If scratches or damage exist, they must be sanded out using 400 to 600 grit sandpaper. If the damage cannot be repaired, contact RDI. Do not risk a deployment with damaged O-ring surfaces.
- ❑ Do not lift or support an Ocean Surveyor by the external I/O cable. The connector or cable will break.

### Assembly Guidelines

- ❑ Always check that both the I/O cable (wet end) and the transducer end-cap connector O-ring are in place when connecting the I/O cable to the transducer. The I/O cable O-ring has a tendency to fall out if the cable connector is dropped.
- ❑ Read the Maintenance book for details on Ocean Surveyor re-assembly. Make sure the top hat assembly O-rings stay in their groove when you re-assemble the Ocean Surveyor. Tighten the Top Hat hardware as specified. Loose, missing, or stripped Top Hat mounting hardware or damaged O-rings can cause the Ocean Surveyor transducer to flood.

### Deployment Guidelines

- ❑ Read the *VmDas* User's Guide. This guide has a tutorial to help you learn how to use the software.
- ❑ Use the default Command Files (installed to the same directory as *VmDas*) to help setup the ADCP.